Probability & Mean

Probability	$P(x) = \frac{\#\ of\ favourable\ outcomes}{\#\ of\ possible\ outcomes}$
Mean	$m = \frac{sum\ of\ terms}{number\ of\ terms}$

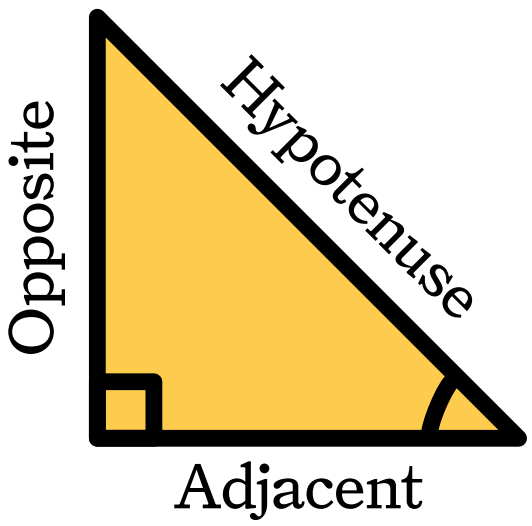
Algebra

Slope	$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\Delta y}{\Delta x}$
Slope-Intercept Form	$y = mx + c$
Midpoint	$(x_m, y_m) = \left(\frac{x_1 - x_2}{2}, \frac{y_1 - y_2}{2}\right)$
Quadratic Formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Geometry

Pythagorean Theorem

$$a^2 + b^2 = c^2$$



Sine

$$Sin\ \theta = \frac{Opposite}{Hypotenuse}$$

Cosine

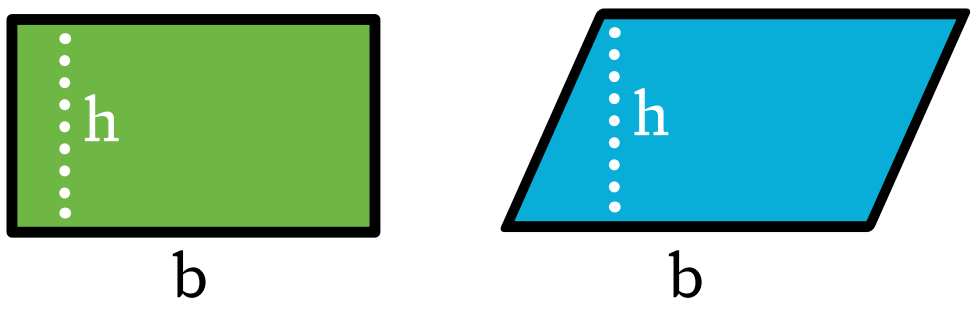
$$Cos\ \theta = \frac{Adjacent}{Hypotenuse}$$

Tangent

$$Tan\ \theta = \frac{Opposite}{Adjacent}$$

Area of a Rectangle and Parallelogram

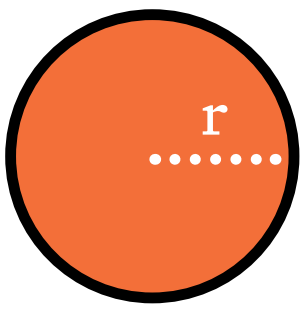
$$A = bh$$



Circumference and Area of Circles

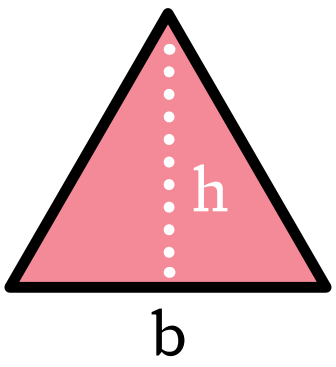
$$C = 2\pi r$$

$$A = \pi r^2$$



Area of a Triangle

$$A = \frac{1}{2}bh$$



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